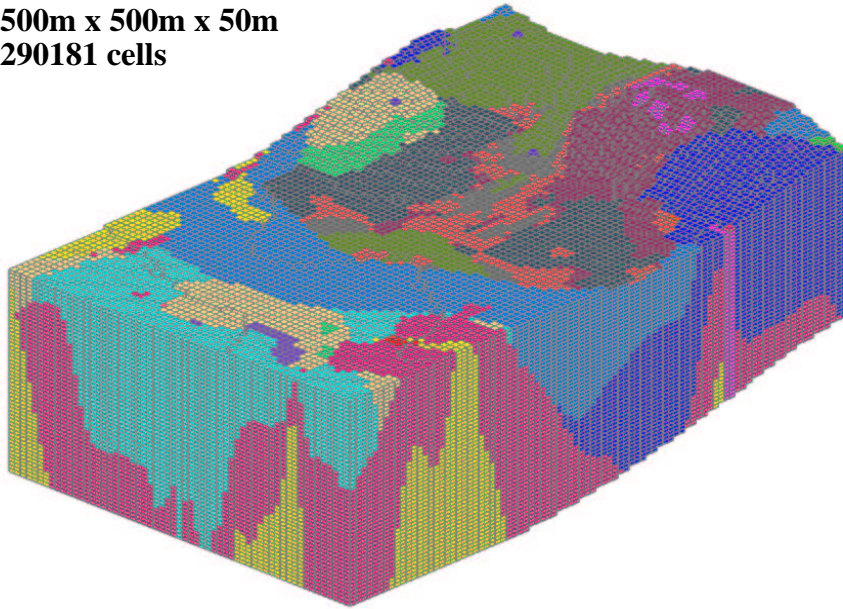


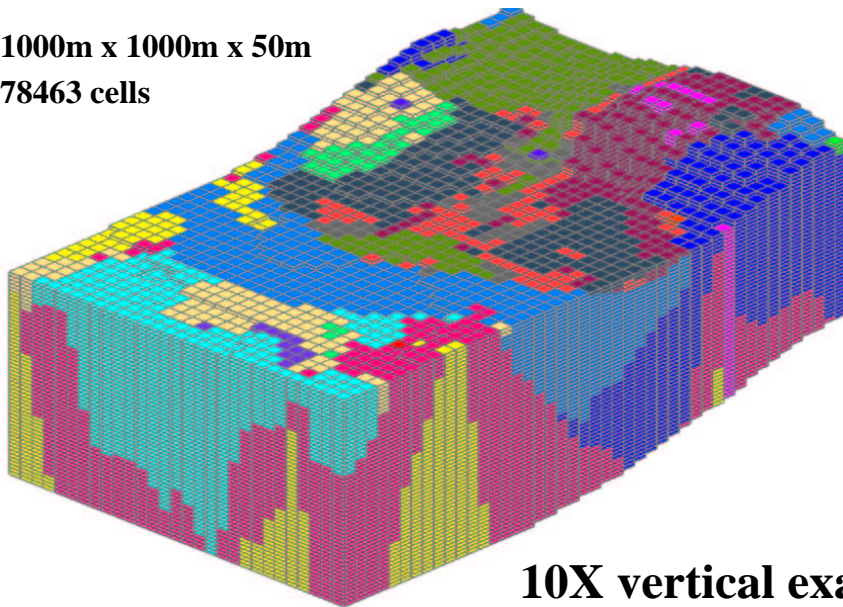
Orthogonal (finite difference) Mesh Generation

500m x 500m x 50m
290181 cells

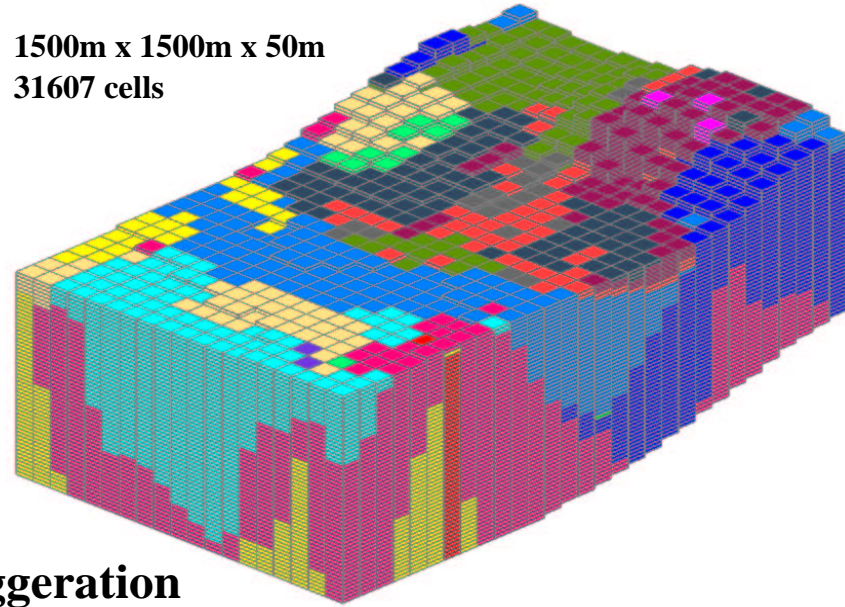


Regular grids sample a single stratigraphic framework at different resolutions. The computational grid resolution is independent of the stratigraphic framework model.

1000m x 1000m x 50m
78463 cells



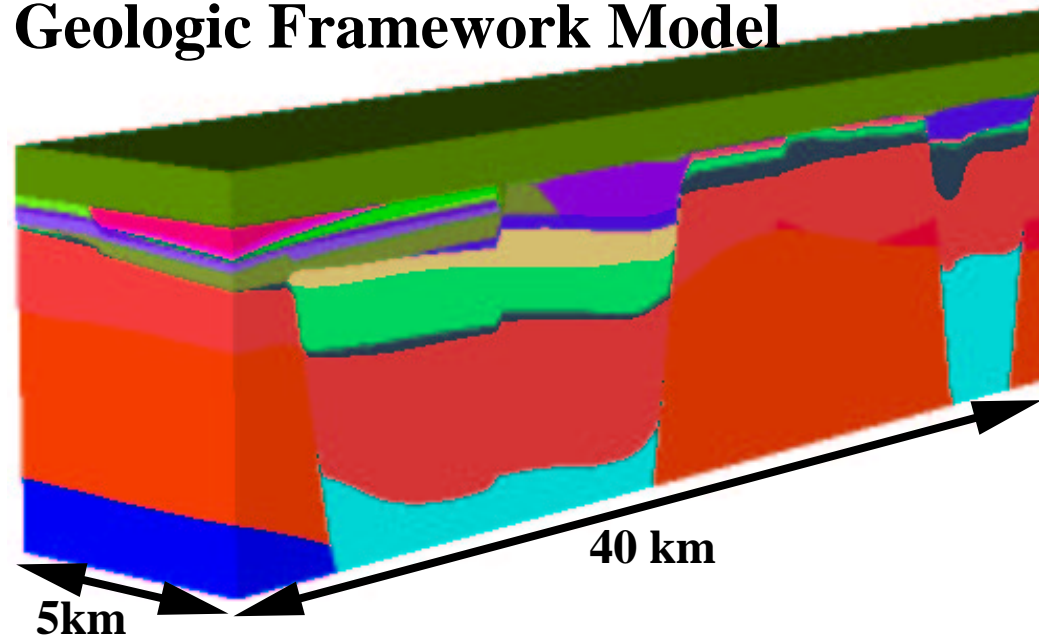
1500m x 1500m x 50m
31607 cells



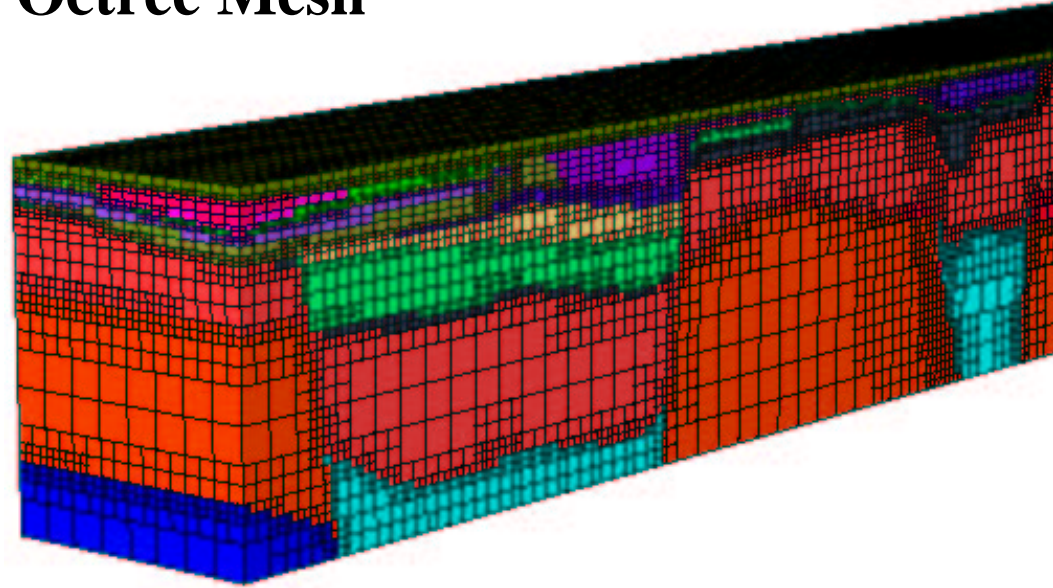
10X vertical exaggeration

Example: Nevada Test Site, Basin & Range

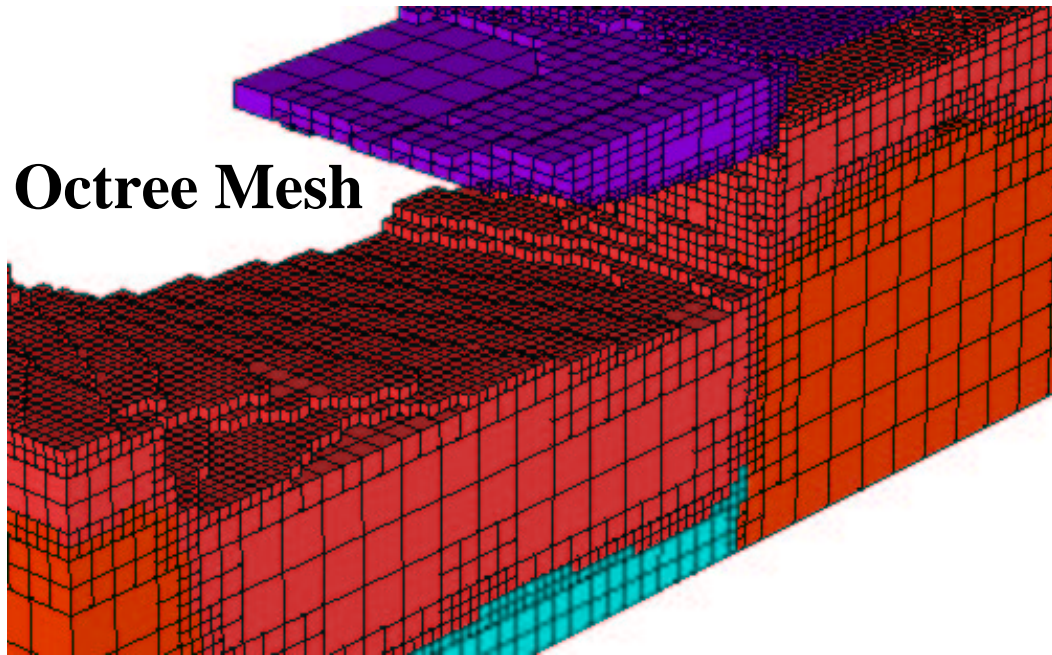
Geologic Framework Model



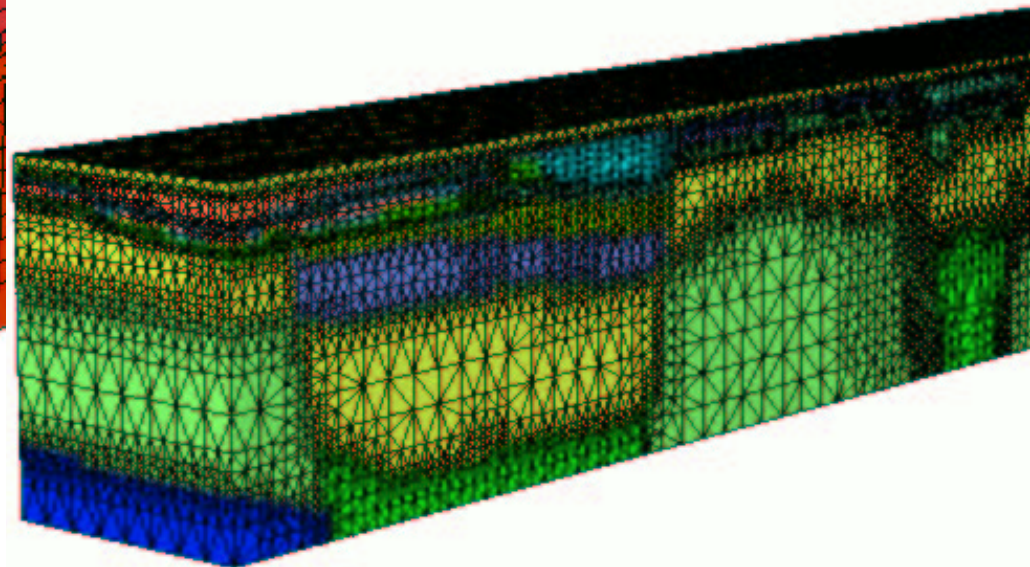
Octree Mesh



Octree Mesh



Tetrahedral Mesh



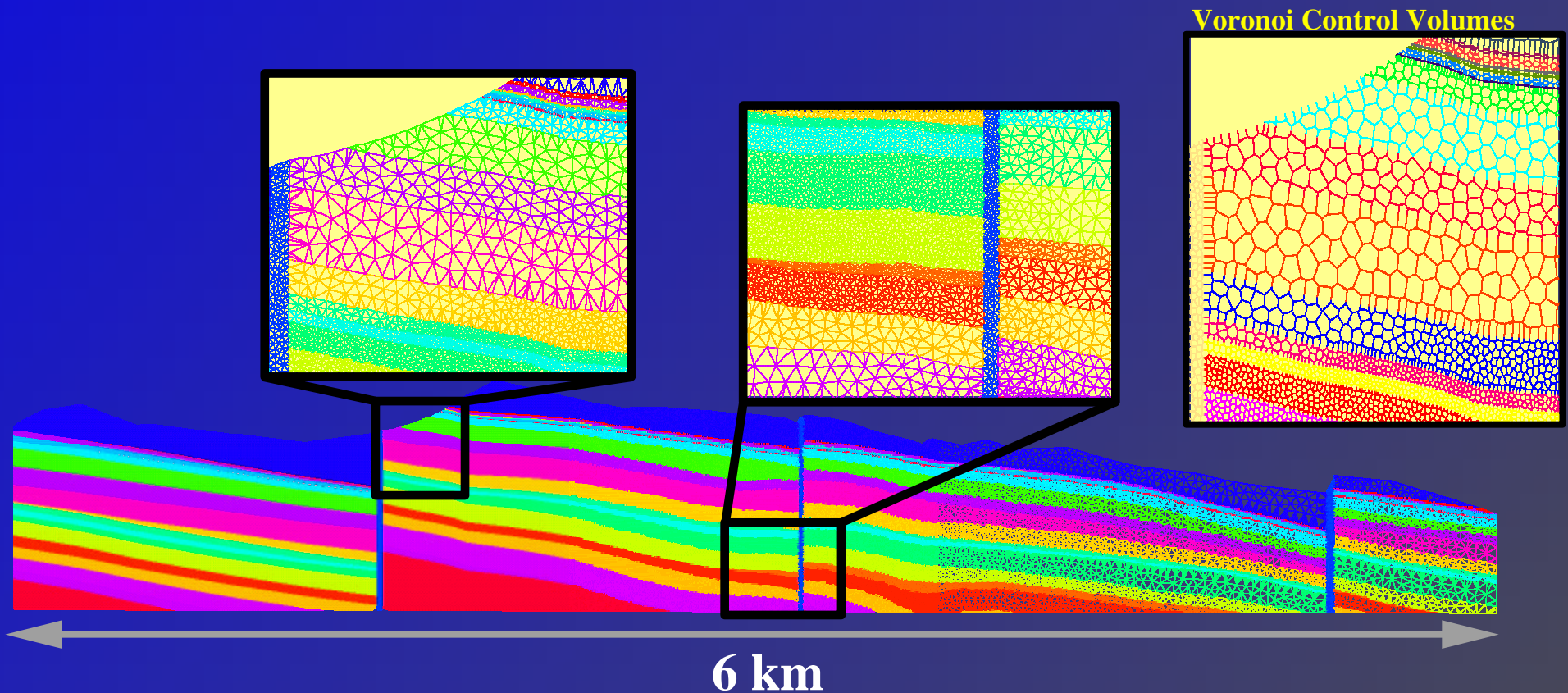
Stratigraphic Units Offset by Faults

66984 nodes

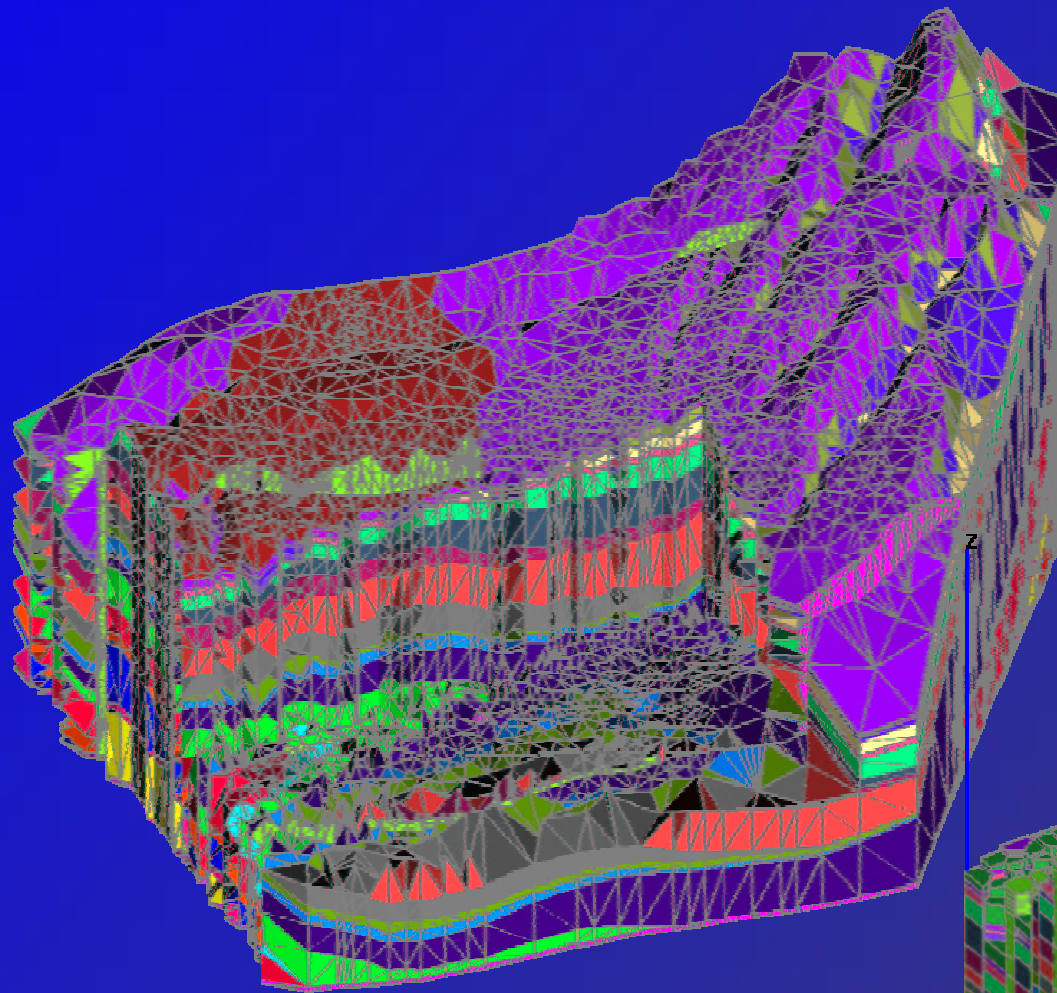
78312 elements

28 materials

Delaunay with all boundary and interface triangles non-obtuse



Example: 3D Tetrahedral Mesh



3D Voronoi (PEBI) Grid

**3D Unstructured Tetrahedral
Grid with 28 Stratigraphic
Units and Multiple Fault
Blocks**

